

Alec Pool

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EDUCATION

University of Maryland (UMD)

College Park, MD

BS in Computer Science, Minor in Astronomy

Expected May 2023

- **GPA:** 3.6
- **Relevant Coursework:** Algorithms, Introduction to Data Science, Object Orientated Programming II, Linear Algebra, Applied Probability and Statistics, Organization of Programming Languages, Network Security
- **Maximum President's Merit Scholarship, UMD**
- **Award for Highest Performer in Mathematics, Ridgefield High School**

TECHNICAL SKILLS

Languages (Proficient): Java, Python, C

Languages (Experience): SQLite, R, \LaTeX , Ruby, OCaml, Rust, Assembly(MIPS), MatLab, Swift

Technologies: Git/GitHub/GitLab, Google Cloud, Jupyter, Docker, Vim, JUnit, VSCode, IntelliJ, PyCharm, Eclipse, RStudio, MacOS, Windows, Unix

PROJECTS

UMD GenEd Search | *Java, HTTP Requests, APIs, JSoup, IntelliJ*

August 2021 – Present

- **Sent** HTTP GET Requests to the PlanetTerp API
- **Processed and Parsed** JSON formatted response using a third party JSON Parser.
- **Implemented** the JSoup HTML Web Scraping API
- **Stored** processed data in self-made **Data Structure**, a Hash Map containing mappings of String to TreeSet

CSGO Game Analysis | *Python, Jupyter, numpy, pandas, sklearn*

November 2021 – Present

- Walked through the **data science pipeline** using CSGO professional match data
- Performed data **curation**, exploratory data **analysis**, and hypothesis testing with **machine learning**

NEAT Dino Game Implementation | *Python, PyCharm, NEAT*

December 2021 – Present

- **Implemented** the Neuroevolution of Augmenting Topologies (NEAT) **machine learning** algorithm to my own version of the Google Chrome dino game

EXPERIENCE

Tutor for Fundamentals of Computer Science II

September 2021 – Present

York College

Queens, New York City

- **Teaching** OOP Constructs, Data Structures, Sorting/Searching Algorithms, in Java

Summer Head Lifeguard and Assistant Head Lifeguard:

May 2018 - August 2018

WHOA

Ridgefield, CT

- **Lead** a team of Junior Lifeguards
- **Organized** the Schedule of both events and Junior Lifeguard shifts
- **Communicated** with Lifeguards, Patrons, President, and Maintenance

Spring State House Intern:

May 2019 - June 2019

Connecticut State House of Representatives

Hartford, CT

- Worked alongside Connecticut State House Representative John H. Frey
- **Researched** for a team project to record historical information on State House representatives

COMMUNITY & LEADERSHIP

Vice-President of Internal Affairs

October 2021 – Present

Sigma Phi Delta Engineering/Computer Science Fraternity, Beta-Iota Chapter

College Park, MD

- **Leading** and **Organizing** teams of brothers, spanning all necessary internal fraternity functions
- **Decision Making** as an executive board member

Founding member, Vice-President, and Web-Developer/Organizer,

February 2021 – Present

Kids At Heart Volunteer Organization

College Park, MD

- **Developed and Manage** organization website
- **Organize and Lead** organization members